

# Prof. Dr. Te-Hua Fang



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molecular dynamics nanotechnology materials mechanics scanning probe microscopy

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Te-Hua Fang				Web of Science ResearcherID <sup>®</sup> C-1955-2008
National Kaohsiung University of Science and Technology				
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353	5,156	38 <sup>®</sup>	2	

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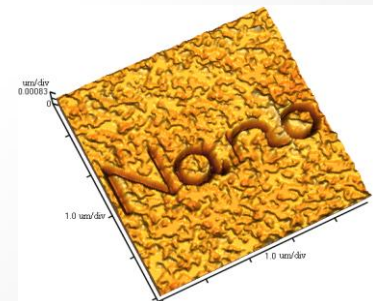
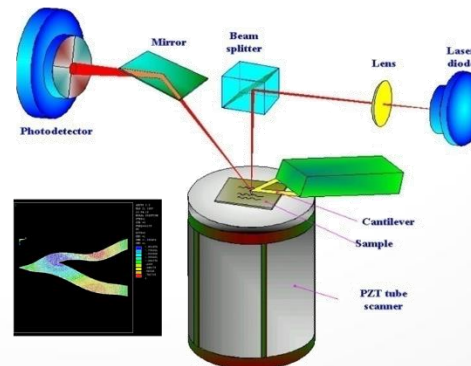
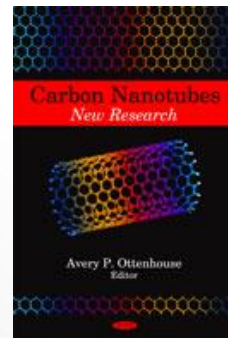
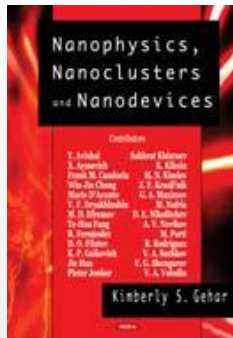
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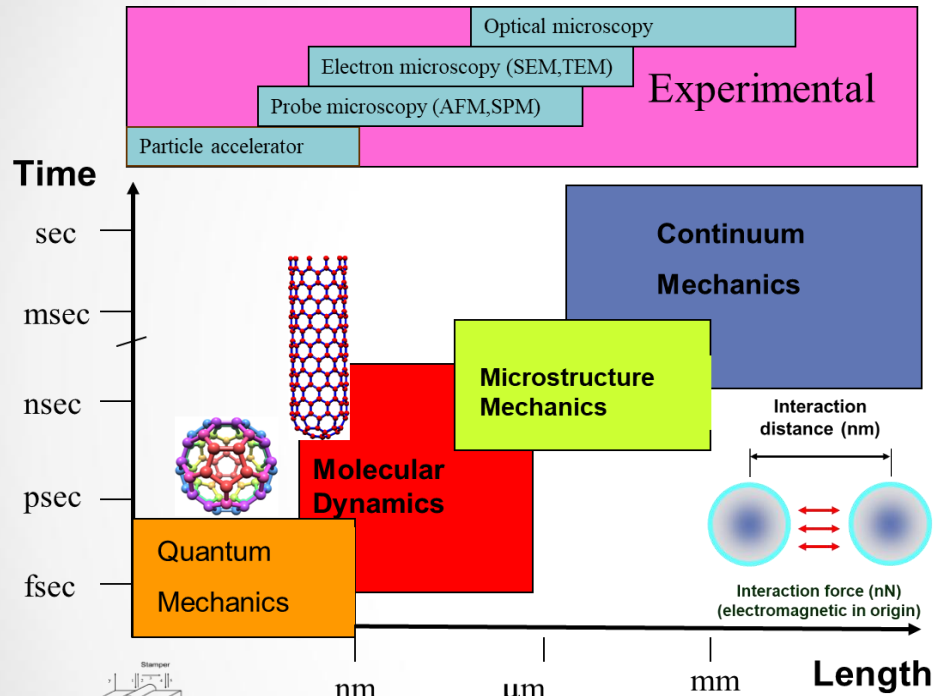
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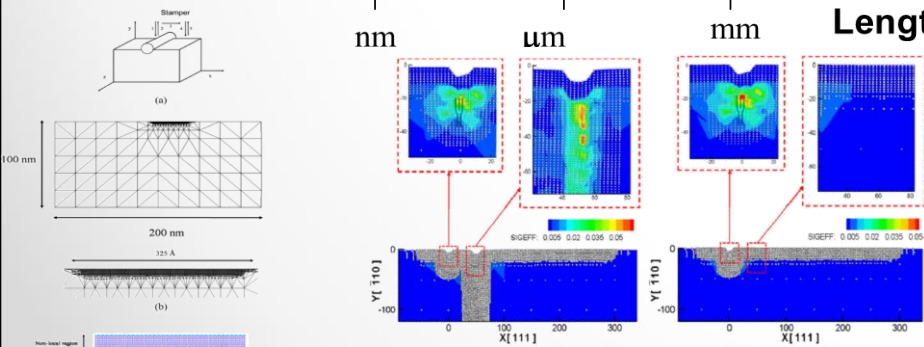


# Molecular Dynamics

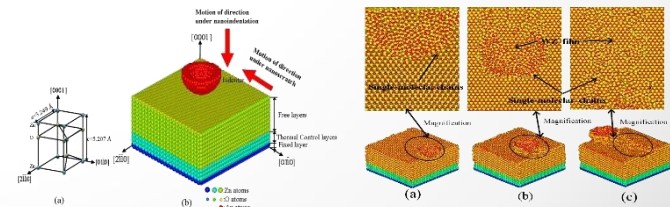


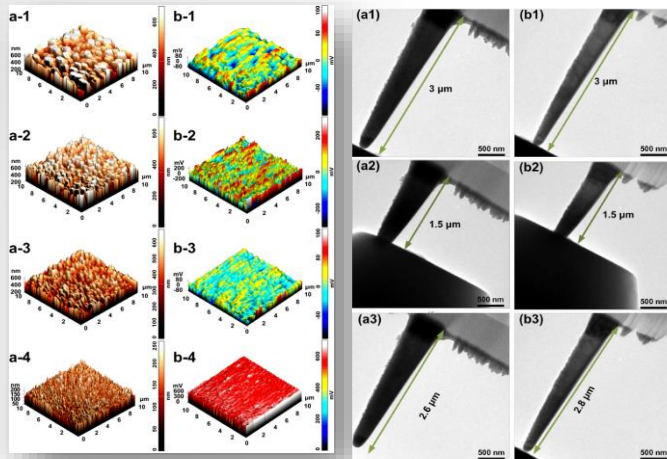
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## Molecular dynamics of nanoindentation and nanoscratching process

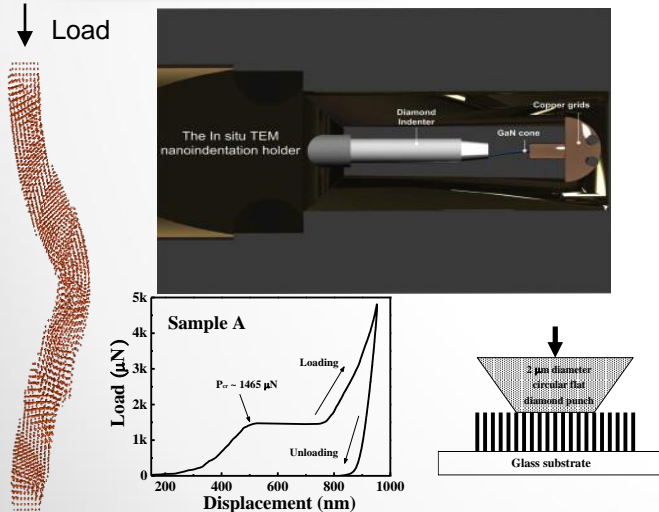


Microscopic properties of a nanocrystal aluminum thin film during nanoimprint using quasi-continuous method



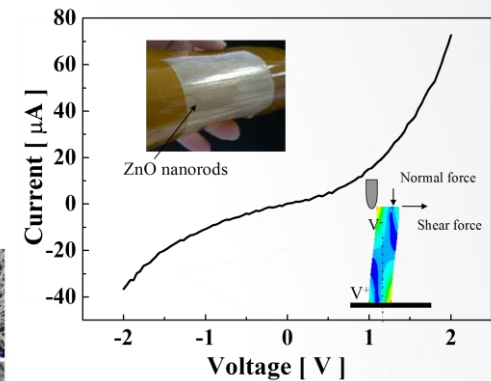
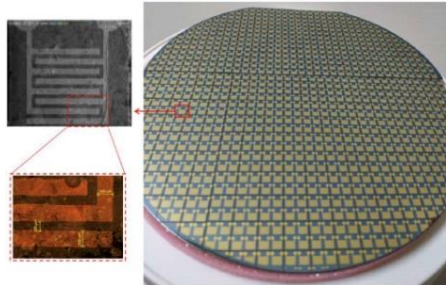
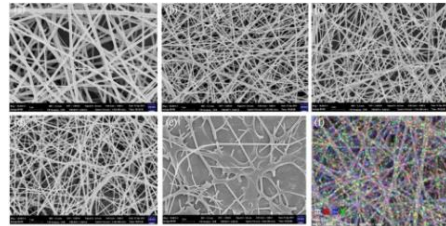
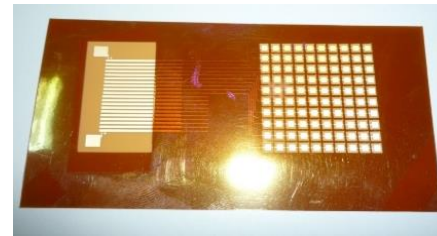


Mechanical characterization of nanomaterials

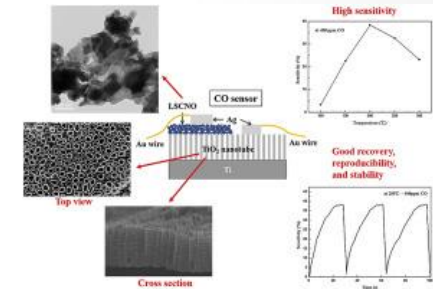


Buckling

$$P_{cr} = \frac{\pi^2 EI}{L_e^2} = \frac{\pi^2 EI}{(KL)^2}$$



Flexible sensor applications



Heteronanostructures for gas sensing applications

Sample description		$\sigma_{cr}$ (MPa)	$K$	$\epsilon_{cr}$ (%)	$E$ (GPa)
A	length: 2000 nm diameter: 100 nm	723	0.5	0.62	117
			0.7	0.32	229
B	length: 800 nm diameter: 30 nm	806	0.5	0.35	232
			0.7	0.18	454